23UIM11 — PROGRAMMING IN C

Time : Three hours   Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1.   What is a variable? Give examples.

2.   What are the different tokens available in C?

3.   What are unary operators? Give example.

4.   Write the syntax of continue statement.

5.   Define a character array with syntax.

6.   How do you initialize a 2-D array? Give an example.

7.   Write any two differences between user defined and library functions.

8.   Outline a structure with syntax.

9.   What is chain of Pointers?

10.   What is fseek( )?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain with example, the various constants available in C.

Or

(b) Write the guidelines to use scanf( ) and printf( ) functions in C language.

12. (a) Write short notes on switch statement with an example.

Or

(b) Explain with example the different string manipulation library functions.

13. (a) Write a program using function to check whether the given number is prime or not.

Or

(b) Explain the concept of recursion with an example.

14. (a) Give five differences between structure and Union.

Or

(b) Write a C program to print name, subject and marks of students using structure.

15. (a) Write about pointer and arrays.

Or

(b) Define pointer. How to declare and initialize it?

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain any five operators used in C language.

17. Explain if, if else, and cascaded if-else with examples.

18. Differentiate between call by value and call by reference with examples.

19. Explain how structures within structures are used? Give example.

20. What is pointer? Give the advantages and disadvantages of pointer data type.

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